

STOP PRESS: We have a special program by Gary Ernst - KØGVB from West Branch. Gary was on a recent DX-pedition and will share his travels with us.

EIDXA NEWSLETTER

3-12-81

The next scheduled meeting for the EIDXA will be April 3, 1981 at 7:30 at the Marion R. E. C. Center. This meeting should give everyone a chance to compare their efforts in the ARRL DX bashes.

Items to be covered include:

- 1) 1982 Convention Report
- 2) Repeater Committee Discussion
- 3) General Business

This issue contains some of the operating aids and guidelines for the new members that have appeared before. Hopefully they will prove helpful to the membership.

W Ø W P  
TOM LINDGREN  
1260 13th Ave.  
Marion, Iowa 52302

To: WØSR

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Editors Scratch pad:

For the record, WØWP is this issues editor. Rick ADØF skipped to W2 land for improved low band propagation. On behalf of the club, we'd like to wish Rick and Dee good luck! CU in piles Rick.....

Due to Rick's departure, the EIDXa will elect a new Vice President at the April meeting.....

WØIZ and WØWP attended the Burlington, Iowa amateur clubs banquet and show earlier this month. "The 25 Greatest Dx-peditions" show presented by Hugh WA4WME was exceptionally well done. The folks in Burlington especially WØNB, WØJI, and KØKOP were just great hosts for a first class dxers show!

The new KWM380's are really showing up in the club, some of the newest proud owners are KØAT, WØUZ, WBØPYD, WØEJ, and KØJSY.....

NØAFL, Dave and KCØQ, Jeff are really tearing up the ionosphere these days. Both Jeff and Dave have made substantial strides in there DXCCs... Watch out you old time dxers, these dx sleuths are for real!

Speaking of Jeff KCØQ, his Super Keyer pcb and parts kit are available at the Parts Store in Marion.....

Roger N4RR broke his leg. No he didn't fall off his tower(with his sky needle more extensive damage is a certainty). He slipped pushing his automobile out of his garage. The accident occurred one week prior to the arrl dx competition cw. Roger had been waiting impatiently for months to participate this year in the big contest. Giving it a valiant effort Roger had to rest the leg after several hours of operating..... even with the bad leg though Roger is still knocking off the zones for his five band WAZ. Last count he had only 7 left to go !

WØIZ confirmed Tim BV2A on 14 cw ! Congrats to the new EIDXa extra class hams Eric WBØPYD, Joel WBØYUI, and Jan KFØZ (NØAYM). Super job fellas!

On the Domestic Scene- Have you read the CR Gazette Sports section lately? If so you probably have seen Curt Benson's picture there. KØAT's son Curt, won the state high schools 200 yard freestyle swimming title last week in Ames. Would you believe he is only a sophomore?

Congratulations to KØJSY on his new job promotion, Director of the Linn County Health Dept. Also Keith has move into his new home on hillside with plenty of room for antennas. He says watch out for the big signal from him next fall!

AKØM Steve, and KDØQ Glenn, are each proud new fathers recently!

KBØV Matt, tied the ribbons with his new XXL Becky, December 28!

The Waterloo Club has elected Jim WBØUFL there Vice President, and Steve AKØM there Secretary!



Minutes of EIDX meeting of Sept. 19, 1980. The meeting was called to order by president KØJSY at 7:40 at the REC building in Marion, Iowa

Members in attendance were CF, AFL, SML, IZ, WP, M, INR, AL, GT, SR, VX, ELF, VM, PR, AYM, JSY, LUZ, F, EJ, GA, Q.

Visitors in attendance were K8BI, WØPPF, WDØBKT, WAØGCX, and ~~WØPMT~~

Minutes of the last meeting were read and approved.

Treasurers report reported an amount of \$157.66 in the treasury. WØWP submitted bills of \$15.13 for mailings and \$15.42 for coffee and donuts. Coffee donations for the evening amounted to \$8.25. The club also accepted \$14.25 from the qsl committee for money received above expenses.

KØJSY has been appointed by CQ magazine as official checker of qsls for CQ awards.

The ARRL National Convention will be held in Cedar Rapids in 1982. KØJSY is representing the EIDX on general planning with CVARC committee. A committee for the DX portion of the convention to be hosted by EIDX was formed. WØSR and WØWP were appointed as committee members.

KØJSY thanked the officers of 1979 for their help.

WØWP gave a report on contest awards within the club to add incentive in participation. The committee is setting up criteria so that all members have a chance of winning a certificate or plaque. WØSML moved that the existing committee continue their project by organizing and developing an incentive program. WØVX seconded and the motion carried.

KØCF gave a report on the qsl committee. 14 members got qsls this time. KØCF moved that \$14.25 left over be donated to the club. The motion was seconded and it carried. Qsls can be ordered if new members want to order or old members reorder. It is less expensive however, if several members order at the same time. Example:

3000 cards for 9 members	\$31.88
3000 cards for 3 members	\$46.55

A motion was made for the secretary to send copy of new CQ WW contest log to all members. Motion was seconded and carried.

WØVX moved to make 1000 copies of the new CQ WW form. WØSML seconded and the motion carried.

KØVM gave a report on the progress of the EIDX repeater. A repeater is now on with about 20 miles mobile coverage. The frequencies are 144.57 input/ 145.17 output. Items stilled for the project are transmit antennas, lockable cabinet, and some power supply components. The receive site has been arranged but a transmet site is still needed. The club and committee are looking for a site. WØSR moved that the repeater committee prepare a financial proposal for completing the repeater installation. At that time the club will decide if we will have a repeater. Motion was seconded and carried.

Page two of Sept. 19, 1980 meeting

Election of officers:

Nominated for president: N4RR and W0EJ-----elected W0EJ

Nominated for vice president: AD0F, K0INR, and KB0PR-----elected AD0F

Nominated for secretary: K0LUZ-----elected K0LUZ

W0SML moved to make the REC building our permanent meeting place. Motion was seconded. The motion did not carry.

The meeting was adjourned at 9:16.

Respectfully Submitted

*Gary Letchford K0LUZ*

Gary Letchford K0LUZ  
Secretary EIDX

DX

## Are you a big gun?

John Yodis, K2VV

A lot of intangibles go into designating an amateur as a "Big Gun" or even a "Little Pistol." If you're not quite sure if you or someone else belongs in one of these categories, this guide may be of value.

Big Gun	Little Pistol	Lost Cause
Clears his throat in a pileup and receives 40 over 9 report.	Is last W2 to get through and is 40 minutes late for work.	Wastes 4 hours calling with no luck — finds cat strangled by irate neighbor with TVI.
Is immediately called by name by DX station.	Usually has to spell his name four times phonetically.	Is called colorful names by DX station for interrupting phone patch.
Writes critiques of technical articles in ham radio.	Had letter to the editor printed in QST.	Has lifetime subscription to "73".
Knows beam heading of every DXCC country.	Knows roughly where Japan and Europe are.	Turns 2-meter beam toward the other guy's house when working him through repeater.
Has made high claimed scores listing in last 8 ARRL DX contests.	Was highest-scoring Novice in section in his first ARRL Sweepstakes.	Tied for fourth place in NYS in last Rhode Island QSO Party.
Speaks 14 languages well enough to get a QSL.	Picked up a few dirty French words in WWII — uses them to insult VE2's on 75M.	Has been spelling "amateur" wrong all his life.
Receives QSL shipments from bureau by UPS.	Receives QSL shipments from bureau by first class mail.	Still gets QSL samples from "Little Print Shop".
Has 5BDXCC and 3 ZA QSLs on wall.	Has 40M WAS and King Hussein's QSL on wall.	Has RCC and ARRL membership certificates on wall.

— Albany ARA, NY



From the Prez-

This next meeting promises to be an important one for the EIDX. Some important old and new issues need to be decided and I urge all members to attend.

One important item will be the election of a new club vice president. As many of you are aware, ADØF headed east recently vacating the post. When you come to the meeting, be sure to bring the nominee of your choice along. However, he need not be present to win.

The repeater committee has been reorganized and WØMJN is the new chairman. The committee will again make a presentation and offer some recommendations. In view of the lengthy discussion of this topic at the last meeting, it is the hope of many that this matter can be decided quickly in April.

A big "Thank You" goes to Tom, WØWP, for putting out our first newsletter of the year. Tom stepped in to handle this chore when ADØF left.

Best DXing to all and see you at the April meeting.

- 73,

Wade Walstrom WØEJ

shorts...

KDØH Lloyd has QSYed to New York to take up residence. Lloyd received a company promotion which required his departure. From the EIDXers best of luck Lloyd!

FOR SALE: DRAKE TR-4CW/RIT, AC-4, 10m crystals, spare tubes, 2 yrs old, \$550. Fred KØAT 362-4962

WANTED: The no. 200 DXCC sticker (old style) if you have one to spare please contact WØVI Dave.

The EIDX weekly net meets every Wendsday at 9:30PM on 146.16-76 WØGQ repeater. Our net control is KØLUZ Red. The purpose of the net is to exchange club information and DX tips. Your participation would be appreciated.

REMINDER: The CQ WPX phone test is March 28-29; the CQ WPX cw test is May 30-31. This will be the first time that the club will participate as a group in these contests. As with all the club aggregate totals they will be totaled by the club secretary, KØLUZ.

14 October 1980

TO: EIDXA Members  
FROM: Repeater Committee

Subject: Repeater update and cost estimates

Planning work for the .57/.17 EIDXA repeater is continuing. We will soon be facing a decision on implementation of the plan. This letter will bring you up to date on the latest developments and cost estimates.

Tentative sites for the transmitter and receiver have been located on the NE side of Cedar Rapids. These sites should provide good coverage in Eastern Iowa similar to the CVARC .16/.76 machine. Use of the sites will be free to the club with the possible exception of liability insurance.

It is estimated that the repeater will cost the club about \$800. A breakdown of the costs follows:

ITEM	COST
1. .57 receiver	\$300.00
.17 transmitter	
repeater control logic	
remote control system	
UHF cross link	
2. 130 watt PA & PS	250.00
3. transmit antenna	200.00
hard line coax	
4. locking cabinet	<u>50.00</u>

\$800.00

This amounts to about \$20.00 per member and hopefully can be reduced by careful acquisition and hardware donations. Please note that no money has been spent or committed as of yet even though an experimental repeater is presently operating on .57/.17 at KØVMs QTH.

These are the facts as we know them. Putting the repeater on the air will depend on membership vote at the next meeting. If you support the idea and can contribute cash, hardware, and/or labor please let the committee know. If you have heartburn about what we are doing we also would like to know.

73,  
WØFO, KØVM, & WØVX

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TO ALL EIDX A CLUB MEMBERS:

As you may already know, I'll be leaving the Cedar Rapids area at the end of February. I was faced with a career decision that was not easy to make. I will be relocating in Rochester, New York to accept a position with the RF Communications Division of the Harris Corporation. I regret that my involvement on 147.57 and the HF bands was not what I intended but with many hours of overtime at work and some of the potential "Legal" battles I was faced with, it just was not practical.

I have enjoyed the association very much and would really like to have stayed in the area but contrary to popular belief some things wind up being more important than pile-ups, late nights on 80, etc. With these comments in mind I would like to resign my Vice-Presidency in the EIDX A and be placed on the inactive member status.

I look forward to catching you around the bands once I get situated (could've sworn I just did that) in New York. Please keep in touch and I'll look for you all in the pile-ups.

Sincerely

*Rick ADØF*

P.S. My new address will be:

Richard Heinrich ADØF/2  
3565 Ridge Rd.  
Williamson, NY 14589

CQ  
76 North Broadway  
Hicksville, NY 11801

Dear Sir:

Enclosed are scores for the Eastern Iowa DX Association for club scores in 1980 CQ WW Contest.

Call	Phone Score	CW Score
NØAFL	38,400	
KØAL	37,535	
NØAYM		67,800
KØAT	1,419,204	
WDØAWL	30,000	
WØEAN	93,912	
WDØEIF	704,815	
ADØF		60,000
KØGT	13,930	
KDØH	225,340	
KØLUZ		1,049,600
AKØM	159,278	38,682
WØMJN	191,760	
WØPPF	49,253	
KBØPR	553,308	
KDØQ	595,602	286,748
WØSR	107,450	117,392
KBØSY	12,340	
KØVM	436,278	
WØVX		86,598
WØWP		1,126,681
TOTALS		
	<hr/> 4,668,405	<hr/> 2,833,501

Total of both phone and CW 7,501,906

Sincerely,

*Gary Letchford KØLUZ*

Gary Letchford KØLUZ  
Sec. Tres. EIDX



## CONTESTING-

The following paragraphs are from N6OP's new "The Contest Cookbook" available from 73 magazine.

### The Four Commandments of Contesting

The following four "commandments of contesting" are just as relevant to the advanced tester as to the beginner, but on a more sophisticated level of understanding. They cannot truly be taught, but must be experienced and then assimilated into one's contest repertoire of skills and tricks. One or more of these commandments were mentioned by many contributors, but W3ZZ perhaps puts them best:

#### KNOW YOURSELF

Only you know your own physical and mental limitations... There are ways of improving at least your mental approach, but there are limits beyond which each individual cannot go.

#### KNOW YOUR STATION

This means knowing its strengths and weaknesses...on which band you are loud and when, and the reverse...how to change bands rapidly...how to use your particular receiver...etc.

#### KNOW PROPAGATION

You must be active from day to day so you don't guess the propagation, you know it. You should know who's where for DX so well that you could write the DX bulletins.

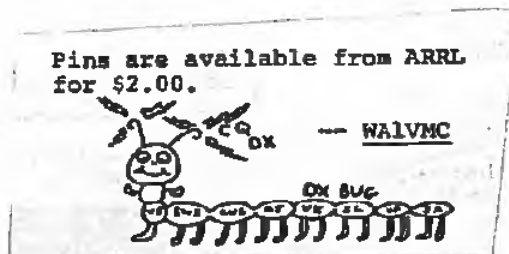
#### PRACTICE, PRACTICE, PRACTICE.

You do not become a great contest operator overnight. If you aspire to win the major contests (SS, CQ WW & ARRL DX Tests), you must use other contests to practice. Operate the CD parties and FD for SS; operate WAE, all Asia, and WPK for the DX contests.

N6DX paraphrases these same concepts in a brief but effective manner: "Don't forget that a contest is a final exam encompassing all aspects: propagation, antennas, receivers, transmitters, accessories, operating skill, ingenuity, etc. To win you must go to the limit in every category."

In the midst of all this striving for perfection, however, it is also important to maintain some sense of balance or sense of humor. As W5XX puts it: "Don't get bent out of shape in the pileups!"

GO GETTUM EIDXAers!



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EIDX DX CENTURY CLUB STANDINGS  
as published in QST as of March 1, 1981

MIXED		PHONE		CW	
<u>CALL</u>	<u>TOTAL</u>	<u>CALL</u>	<u>TOTAL</u>	<u>CALL</u>	<u>TOTAL</u>
WØSR	313	WØSR	308	WØWP	286
WØIZ	312	KØGT	270	WØSR	272
N4RR	307	WØIZ	251	N4RR	240
KØLUZ	303	KØLUZ	240	WØVX	189
WØWP	300	KØJSY	230	KDØQ	115
WØVX	287	KØCF	229	WØUZ	100
KØJSY	230	WØVX	207		
KDØQ	226	NØAPL	202		
KØAL	225	WDØAWL	194		
WBØYUI	177	KØINR	145		
KØINR	171	WØEAN	139		
WØEJ	165	KBØPR	139		
WØUZ	111	WBØUFL	127		
WBØUFL	108	KØAL	125		
WBØOYA	108	WØEJ	117		
NØBGI	106	WØPPF	112		
WBØSEL	103	KDØQ	111		
KDØH	100	WBØOYA	108		
		WBØYUI	107		
		WØSML	104		
		KBØSY	102		
		KAØCLQ	101		

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Current Countries Total:

00000	00000	A2	[38]	Botswana
00000	00000	A3	[32]	Rep. of Tonga
00000	00000	A4X	[21]	Oman
00000	00000	A5	[22]	Bhutan
00000	00000	A6X	[21]	United Arab Emirates
00000	00000	A7X	[21]	Qatar
00000	00000	A9X	[21]	Bahrain
00000	00000	AA (Sec K)		
00000	00000	AP	[21]	Pakistan
00000	00000	BV	[24]	Taiwan
00000	00000	BY	[23, 24]	China
00000	00000	C2	[31]	Rep. of Nauru
00000	00000	C3	[14]	Andorra
00000	00000	C5	[35]	The Gambia
00000	00000	C6	[8]	Bahamas
00000	00000	C9	[37]	Mozambique
00000	00000	CE	[12]	Chile
00000	00000	CE9AA-AM, FB8Y, KC4, LA, LU-Z, OR4, UA1, UK1, VK0, VP8, ZL5, ZS1, 3Y, 4K, 8J		
00000	00000			Antarctica
00000	00000	CE9AN-AZ (Sec VP8)		
00000	00000	CE0A	[12]	Easter Is.
00000	00000	CE0X	[12]	San Felix
00000	00000	CE0Z	[12]	Juan Fernandez
00000	00000	CM, CO	[8]	Cuba
00000	00000	CN	[33]	Morocco
00000	00000	CP	[10]	Bolivia
00000	00000	CR3	[35]	Guinea-Bissau
00000	00000	CR9	[24]	Macao
00000	00000	CT	[14]	Portugal
00000	00000	CT2	[14]	Azores
00000	00000	CT3	[33]	Madeira Is.
00000	00000	CX	[13]	Uruguay
00000	00000	D2, 3	[36]	Angola
00000	00000	D4	[35]	Rep. of Cape Verde
00000	00000	D6	[39]	Comoros
00000	00000	DA, DF, DJ, DK, DL		
00000	00000		[14]	Fed. Rep. of Germany
00000	00000	DM, DT, Y	[14]	German Democratic Rep.
00000	00000	DU	[27]	Rep. of Philippines
00000	00000	EA	[14]	Spain
00000	00000	EA6	[14]	Balearic Is.
00000	00000	EA8	[33]	Canary Is.
00000	00000	EA9	[33]	Ceuta and Melilla
00000	00000	EI	[14]	Rep. of Ireland
00000	00000	EL	[35]	Liberia
00000	00000	EP	[21]	Iran
00000	00000	ET	[37]	Ethiopia
00000	00000	F	[14]	France
00000	00000	FB8W	[39]	Crozet
00000	00000	FB8X	[39]	Kerguelen Is.
00000	00000	FB8Y (Sec CE9AA-AM)		
00000	00000	FB8Z	[39]	Amsterdam & St. Paul Is.
00000	00000	FC	[15]	Corsica
00000	00000	FG	[8]	Guadeloupe
00000	00000	FG, FS	[8]	Saint Martin
00000	00000	FH	[39]	Mayotte
00000	00000	FK	[32]	New Caledonia
00000	00000	FM	[8]	Martinique
00000	00000	FO	[7]	Clipperton I.
00000	00000	FO	[32]	Fr. Polynesia
00000	00000	FP	[5]	St. Pierre & Miquelon
00000	00000	FR	[39]	Glorioso Is.
00000	00000	FR	[39]	Juan de Nova, Europa
00000	00000	FR	[39]	Reunion
00000	00000	FR	[39]	Tromelin

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00000	00000	FW	[32]	Wallis & Futuna Is.
00000	00000	FY	[9]	Fr. Guiana
00000	00000	G	[14]	England
00000	00000	GD	[14]	Isle of Man
00000	00000	GI	[14]	Northern Ireland
00000	00000	GJ, GC	[14]	Jersey
00000	00000	GM	[14]	Scotland
00000	00000	GU, GC	[14]	Guernsey & Dependencies
00000	00000	GW	[14]	Wales
00000	00000	H4, VR4	[28]	Solomon Is.
00000	00000	HA	[15]	Hungary
00000	00000	HB	[14]	Switzerland
00000	00000	HB0	[15]	Liechtenstein
00000	00000	HC	[10]	Ecuador
00000	00000	HC8	[10]	Galapagos Isls.
00000	00000	HH	[8]	Haiti
00000	00000	HI	[8]	Dominican Rep.
00000	00000	HK	[9]	Colombia
00000	00000	HK0	[8]	Bajo Nuevo
00000	00000	HK0	[10]	Malpelo I.
00000	00000	HK0	[7]	San Andres & Providencia
00000	00000	HK0 (Sec KS4)		
00000	00000	HL, HM	[25]	Korea
00000	00000	HP	[7]	Panama
00000	00000	HR	[7]	Honduras
00000	00000	HS	[26]	Thailand
00000	00000	HV	[15]	Vatican
00000	00000	HZ, 7Z	[21]	Saudi Arabia
00000	00000	I, IT	[15]	Italy
00000	00000	IS	[15]	Sardinia
00000	00000	J2, FL8	[37]	Djibouti
00000	00000	J3, VP2G	[8]	Grenada & Dependencies
00000	00000	J6, VP2L	[8]	St. Lucia
00000	00000	J7, VP2L	[8]	Dominica
00000	00000	JA, JE, JG, JH, JR, KA	[25]	Japan
00000	00000	JD, KA1	[27]	Minami Torishima
00000	00000	JD, KA1	[27]	Ogasawara
00000	00000	JT	[23]	Mongolia
00000	00000	JW	[40]	Svalbard
00000	00000	JX	[40]	Jan Mayer
00000	00000	JY	[20]	Jordan
00000	00000	K, W, N, A	[3, 4, 5]	United States of America
00000	00000	KB, KH1	[31]	Baker, Howland & American Phoenix Is.
00000	00000	KC4 (Sec CE9AA-AM)		
00000	00000	KC4, KP1	[8]	Navassa I.
00000	00000	KC6	[27]	Eastern Caroline Is.
00000	00000	KC6	[27]	Western Caroline Is.
00000	00000	KG4	[8]	Guantanamo Bay
00000	00000	KG6, KH2	[27]	Guam
00000	00000	KG6R, S, T, KH0	[27]	Mariana I.
00000	00000	KH6	[31]	Hawaiian I.
00000	00000	KH7	[31]	Kure
00000	00000	KJ, KH3	[31]	Johnston
00000	00000	KL7	[1]	Alaska
00000	00000	KM, KH4	[31]	Midway I.
00000	00000	KP4	[8]	Puerto Rico
00000	00000	KP4		Deschuelo I.
00000	00000	KP6, KH5K	[31]	Kingman Reef
00000	00000	KP6, KH5	[31]	Palmyra, Jarvis
00000	00000	KS4, KP3, HK0		
00000	00000		[7]	Serrana Bank & Roncador C.
00000	00000	KS6, KH8	[32]	American Samoa



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00000	00000	KV, KP2	[8]	Virgin Is.
00000	00000	KW, KH9	[31]	Wake I.
00000	00000	KX	[31]	Marshall Is.
00000	00000	LA, LB, LF, LG, LJ	[14]	Norway
		LA (See CE9AA-AM)		
00000	00000	LU	[13]	Argentina
		LU-Z (See CE9AA-AM, VP8)		
00000	00000	LX	[14]	Luxembourg
00000	00000	LZ	[20]	Bulgaria
		M1 (See 9A)		
		N (See K)		
00000	00000	OA	[10]	Peru
00000	00000	OD	[20]	Lebanon
00000	00000	OE	[15]	Austria
00000	00000	OH	[15]	Finland
00000	00000	OH0	[15]	Aland Is.
00000	00000	OJ0	[15]	Market
00000	00000	OK	[15]	Czechoslovakia
00000	00000	ON	[14]	Belgium
		OR4 (See CE9AA-AM)		
00000	00000	OX, XP	[40]	Greenland
00000	00000	OY	[14]	Faroe Is.
00000	00000	OZ	[14]	Denmark
00000	00000	P2	[28]	Papua New Guinea
00000	00000	PA, PD, PE, PI	[14]	Netherlands
00000	00000	PJ	[9]	Neth. Antilles
00000	00000	PJ	[9]	St. Maarten, Saba, St. Eustatius
00000	00000	PY	[11]	Brazil
00000	00000	PY0	[11]	Fernando de Noronha
00000	00000	PY0	[11]	St. Peter & St. Paul's Rocks
00000	00000	PY0	[11]	Trinidad & Martin Vaz Is.
00000	00000	PZ	[9]	Surinam
00000	00000	S2	[22]	Bangladesh
00000	00000	S7	[39]	Seychelles
00000	00000	S9, CR5	[36]	Sao Tome & Principe
00000	00000	SK, SL, SM	[14]	Sweden
00000	00000	SP	[15]	Poland
00000	00000	ST	[34]	Sudan
00000	00000	ST0	[34]	Southern Sudan
00000	00000	SU	[34]	Egypt
00000	00000	SV	[20]	Greece
00000	00000	SV	[20]	Crete
00000	00000	SV	[20]	Dodecanese
00000	00000	SV	[20]	Mount Athos
00000	00000	TA	[20]	Turkey
00000	00000	TF	[40]	Iceland
00000	00000	TG	[7]	Guatemala
00000	00000	TI	[7]	Costa Rica
00000	00000	TI9	[7]	Cocos I.
00000	00000	TJ	[36]	Cameroon
00000	00000	TL	[36]	Central African Empire
00000	00000	TN	[36]	Congo
00000	00000	TR	[36]	Gabon
00000	00000	TT	[36]	Chad
00000	00000	TU	[35]	Ivory Coast
00000	00000	TY	[35]	Benin
00000	00000	TZ	[35]	Mali
		T2 (See VR8)		
		T3 (See VR)		

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00000	00000	UA; UK1,3,4,6; UV; UW1-6; UN1	
00000	00000	[16]	European Russian S.F.S.R.
00000	00000	UA1, UK1	[40] Franz Josef Land
		UA1, UK1 (See CE9AA-AM)	
00000	00000	UA2, UK2F	[15] Kaliningradsk
		UA, UK, UV, UW9-0	
00000	00000	[16, 17, 18, 19, 23]	Asiatic R.S.F.S.R.
00000	00000	UB, UK, UT, UY5	[16] Ukraine
		UC2, UK2A/C/H/L/O/S/W	
00000	00000	[16]	White R.S.S.R.
00000	00000	UD6, UK6C/D/K	[21] Azerbaijan
00000	00000	UF6, UK6F/O/Q/V	[21] Georgia
00000	00000	UG6, UK6G	[21] Armenia
00000	00000	UH8, UK8H	[17] Turkoman
00000	00000	UI8, UK8	[17] Uzbek
00000	00000	UJ8, UK8J/R	[17] Tadzhik
00000	00000	UL7, UK7	[17] Kazakh
00000	00000	UM8, UK8M, N	[17] Kirghiz
00000	00000	UO5, UK5O	[16] Moldavia
00000	00000	UP2, UK2B/P	[15] Lithuania
00000	00000	UQ2, UK2G/Q	[15] Latvia
00000	00000	UR2, UK2R/T	[15] Estonia
00000	00000	VE, VO	[1, 2, 3, 4, 5] Canada
00000	00000	VE1	[5] Sable I.
00000	00000	VE1	St. Paul I.
00000	00000	VK	[29, 30] Australia
00000	00000	VK	[30] Lord Howe I.
00000	00000	VK9	[30] Willis I.
00000	00000	VK9	[29] Christmas I.
00000	00000	VK9	[29] Cocos I.
00000	00000	VK9	[30] Mellish Reef
00000	00000	VK9	[32] Norfolk I.
		VK0 (See CE9AA-AM)	
00000	00000	VK0	[39] Heard I.
00000	00000	VK0	[30] Macquarie I.
		VO (See VE)	
00000	00000	VP1	[7] Belize
00000	00000	VP2A	[8] Antigua, Barbuda
00000	00000	VP2E	[8] Anguilla
00000	00000	VP2K	[8] St. Kitts, Nevis
00000	00000	VP2M	[8] Montserrat
00000	00000	VP2S	[8] St. Vincent & Dependencies
00000	00000	VP2V	[8] Brit. Virgin Is.
00000	00000	VP5	[8] Turks & Caicos Is.
		VP8 (See CE9AA-AM)	
00000	00000	VP8	[13] Falkland Is.
00000	00000	VP8, LU-Z	[13] So. Georgia Is.
00000	00000	VP8, LU-Z	[13] So. Orkney Is.
00000	00000	VP8, LU-Z	[13] So. Sandwich Is.
		VP8, LU-Z, CE9AN-AZ	
00000	00000	[13]	So. Shetland Is.
00000	00000	VP9	[5] Bermuda
00000	00000	VQ9	[39] Chagos
00000	00000	VR1, T3	[31] Brit. Phoenix Is.
00000	00000	VR1, T3	[31] Gilbert & Ocean Is.
00000	00000	VR3, 7, T3	[31] Line Is.
00000	00000	VR6	[32] Pitcairn I.
		VR7 (See VR3)	
00000	00000	VR8, T2	[31] Tuvalu

SSB	CW		
84211	84211		
00050	00050		
00000	00000	VS5	[28] Brunei
00000	00000	VS6	[24] Hong Kong
		VS9 (See 8Q)	
00000	00000	VS9K	[22] Kamaran I.
00000	00000	VU	[22] India
00000	00000	VU7	[26] Andaman & Nicobar Is.
00000	00000	VU7	[22] Laccadive Is.
		W (See K)	
00000	00000	XE	[6] Mexico
00000	00000	XF4	[6] Revilla Gigedo
		XP (See OX)	
00000	00000	XT	[35] Upper Volta
00000	00000	XU	[26] Khmer Rep.
00000	00000	XV	[26] Vietnam
00000	00000	XW	[26] Lao People's Dem. Rep.
00000	00000	XZ	[26] Burma
00000	00000	YA	[21] Afghanistan
00000	00000	YB,YC	[28] Indonesia
00000	00000	YI	[21] Iraq
00000	00000	YJ	[32] (New Hebrides)
00000	00000	YK	[20] Syria
00000	00000	YN	[7] Nicaragua
00000	00000	YO	[20] Rumania
00000	00000	YS	[7] Salvador
00000	00000	YU	[15] Yugoslavia
00000	00000	YV	[9] Venezuela
00000	00000	YV8	[8] Aves I.
00000	00000	ZA	[15] Albania
00000	00000	ZB	[14] Gibraltar
		ZC (See 5B)	
00000	00000	ZD7	[36] St. Helena
00000	00000	ZD8	[36] Ascension I.
00000	00000	ZD9	[38] Tristan da Cunha & Gough I.
00000	00000	ZE	[38] ZIMBABWE (Rhodesia)
00000	00000	ZF	[8] Cayman Is.
00000	00000	ZK1	[32] So. Cook Is.
00000	00000	ZK1	[32] No. Cook Is.
00000	00000	ZK2	[32] Niue
00000	00000	ZL	[32] New Zealand
00000	00000	ZL	[32] Auckland I. & Campbell I.
00000	00000	ZL	[32] Chatham Is.
00000	00000	ZL	[32] Kermadec Is.
		ZL5 (See CE9AA-AM)	
00000	00000	ZM7	[31] Tokelaus
00000	00000	ZP	[11] Paraguay
00000	00000	ZS1,2,4,5,6	[38] South Africa
		ZS1 (See CE9AA-AM)	
00000	00000	ZS2	[38] Prince Edward & Marion Is.
00000	00000	ZS3	[38] (Namibia) Southwest Africa
00000	00000	IS	[26] Spradly Is.
00000	00000	3A	[14] Monaco
00000	00000	3B6,7	[39] Agalega & St. Brandon
00000	00000	3B8	[39] Mauritius
00000	00000	3B9	[39] Rodriguez I.
00000	00000	3C	[36] Equatorial Guinea

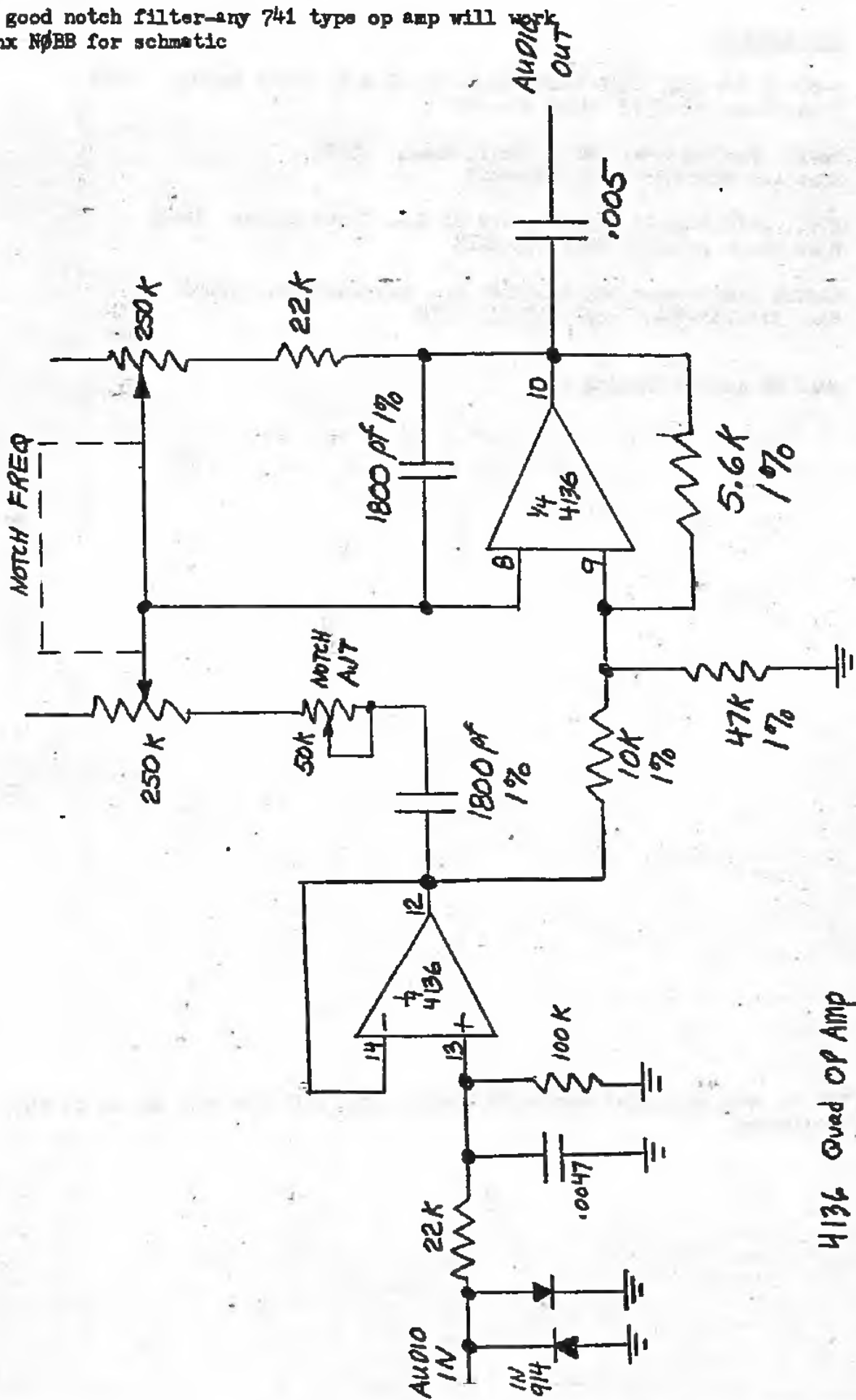
SSB	CW		
84211	84211		
00050	00050		
00000	00000	3C8	[36] Annobon
00000	00000	3D2	[32] Fiji Is.
00000	00000	3D6	[38] Swaziland
00000	00000	3V	[32] Tunisia
00000	00000	3X	[35] Rep. of Guinea
00000	00000	3Y	[38] Bouvet
		3Y (See CE9AA-AM)	
		4K (See CE9AA-AM)	
00000	00000	4S	[22] Sri Lanka
00000	00000	4U	[14] I.T.U. Geneva
00000	00000	4U	[5] Hq., United Nations
00000	00000	4W	[21] Yemen
00000	00000	4X,4Z	[20] Israel
00000	00000	5A	[34] Libya
00000	00000	5B,ZC	[20] Cyprus
00000	00000	5H	[37] Tanzania
00000	00000	5N	[35] Nigeria
00000	00000	5R	[39] Malagasy Rep.
00000	00000	5T	[35] Mauritania
00000	00000	5U	[35] Niger
00000	00000	5V	[35] Togo
00000	00000	5W	[32] Western Samoa
00000	00000	5X	[37] Uganda
00000	00000	5Z	[37] Kenya
00000	00000	6O	[37] Somali
00000	00000	6W	[35] Senegal
00000	00000	6Y	[8] Jamaica
00000	00000	7O	[21] People's Dem. Rep. of Yemen
00000	00000	7P	[38] Lesotho
00000	00000	7Q	[36] Malawi
00000	00000	7X	[32] Algeria
		7Z (See HZ)	
		8J (See CE9AA-AM)	
00000	00000	8P	[8] Barbados
00000	00000	8Q,VS9	[22] Maldive Is.
00000	00000	8R	[9] Guyana
00000	00000	8Z4	[21] Saudi Arabia/Iraq
		Neutral Zone	
00000	00000	9A,(M1)	[15] San Marino
00000	00000	9G	[35] Ghana
00000	00000	9H	[15] Malta
00000	00000	9J	[36] Zambia
00000	00000	9K	[21] Kuwait
00000	00000	9L	[35] Sierra Leone
00000	00000	9M2	[28] West Malaysia
00000	00000	9M6,8	[28] East Malaysia
00000	00000	9N	[22] Nepal
00000	00000	9Q	[36] Rep. of Zaïre
00000	00000	9U	[36] Burundi
00000	00000	9V	[28] Singapore
00000	00000	9X	[36] Rwanda
00000	00000	9Y	[9] Trinidad & Tobago
00000	00000		Abu Ail; Jabal at Tair





A good notch filter—any 741 type op amp will work  
 tnx NBB for schematic

# CUBIC 103 NOTCH FILTER



4136 Quad OP Amp  
 351-1254-010

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KBøFP Tom Melichar RR 1 Shell Rock, 50670  
Home and Work phone 319-885-4803

KCøQ Jeff Russell 731 Danbury St N.E. Cedar Rapids 52402  
Home phone 393-8793 Work 395-2213

KAøCLQ Lynn Hansen 305 Friendly Dr. Marshalltown, 50158  
Home 515-752-5899 Work 515-753-3378

WELCOME ABOARD FELLA'S !

TNX to WøSR, WøEJ, KøAT, WøEAN, ADøF, KøLUZ, KCøQ, and WøVX for inputs to the newsletter.